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APPLICATION NO.	ON NO. FILING DATE FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/769,761	01/26/2001	Mark T. Wajer	. 46396-628	7396	
75	590 12/12/2003	EXAM	EXAMINER		
	HNSON & MCCOLLO	ALVO, N	ALVO, MARC S		
PORTLAND,	RRISON STREET OR 97205	ART UNIT	PAPER NUMBER		
			1731		

DATE MAILED: 12/12/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary    Examiner   Steve Alvo   1731   17			Application No.		Applicant(s)		
Steve Alvo  The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Ederations of the may be a variable used the provisions of 3 CFR 1.136(a). In no event, however, may a reply be timely flied  Ederations of the may be a variable used the provisions of 3 CFR 1.136(a). In no event, however, may a reply be timely flied  If the period for reply specified above is less than this; (30) days, and specified above is less than this; (30) days, and specified above is less than this; (30) days, and specified above is less than this; (30) days, and specified above is less than this; (30) days, and specified above is less than this; (30) days, and specified above the provisional patient form sply submit the sent or extraorded period for reply will, by datation, period will apply and will explicit to MoNTHs from the mailing date of this communication.  Pales or sply within the set or extraorded period for reply will, by datation, and the specified patient forms adjustment. See 37 CFR 1.70(b).  Status  1) Responsive to communication(s) filed on 24 July 2002.  2a) This action is FINAL.  2b) This action is non-final.  3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) Claim(s) 1.14.16.30.32.45 and 47-60 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5) Claim(s) is/are allowed.  6) Claim(s) is/are allowed.  7) Claim(s) is/are allowed.  8) Claim(s) is/are allowed.  10) The drawing(s) filed on is/are allowed.  11 pervoved, corrected drawing are required to reply to this Office action.  12 pervoved, corrected drawing are required in reply to this Office action.  13 pervoved, corrected drawing are required in reply to this Office			09/769,761	69.761 WAJER ET AL			
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A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Extensions of lines may be available under the provisions of 37 CFR 1.36(a), in no avent, however, may a rapidy be timely filed at the period for rapy is precified above, the maximum statutory provided will apply and the line to the communication of the provision of 37 CFR 1.74(b).  If NO period for rapy is specified above, the maximum statutory provided will apply and the glid capits SIX (8) MONTHS from the mailing date of this communication. Fallow to represent them adjustment. See 37 CFR 1.74(b).  Status  1) □ Responsive to communication(s) filed on 24 July 2003.  2a) □ This action is FINAL.  2b) □ This action is non-final.  3) □ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) □ Claim(s) 1-14, 16-30, 32-45 and 47-60 is/are pending in the application.  4a) Of the above claim(s) □ is/are withdrawn from consideration.  5) □ Claim(s) is/are allowed.  6) □ Claim(s) is/are objected to.  8) □ Claim(s) □ is/are objected to.  8) □ Claim(s) □ is/are objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  11) □ The proposed drawings are required in reply to this Office action.  12) □ The oath or declaration is objected to by the Examiner.  Priority under 35 U.S.C. §§ 119 and 120  13) □ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) □ All b) □ Some * c) □ None of:  1. □ Certified copies of the priority documents have been received in Application No.  2. □ Certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 1.72(a)).  * See the attached detailed Office action for a list of the certified copies not received.  10 □ Acknowled			Steve Alvo		1731		
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a) ☐ All b) ☐ Some * c) ☐ None of:  1. ☐ Certified copies of the priority documents have been received.  2. ☐ Certified copies of the priority documents have been received in Application No  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  14) ☒ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application a) ☐ The translation of the foreign language provisional application has been received.  15) ☒ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.  Attachment(s)  1 ☒ Notice of References Cited (PTO-892)  2 ☒ Notice of Draftsperson's Patent Drawing Review (PTO-948)  5 ☒ Notice of Informal Patent Application (PTO-152)	Priority u	inder 35 U.S.C. §§ 119 and 120					
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The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-14, 16-30, 32-45 and 47-60 are rejected under 35 U.S.C. 103(a) as being unpatentable over CA 2,278,399 in view of WAN et al (6,632,328) or PARKER et al (3,193,445).

CA 2,278,399 teaches bleaching mechanical pulp (see Experimental, Part 1 for thermomechanical pulp (TMP)) with 1-6% peroxide in the absence of silicate and sodium hydroxide using 0.3 to 2% MgO or Mg(OH)2, based on the weight of the pulp to obtain a high ISO brightness at high bleaching efficiency. The Mg(OH)2 of CA 2,278,399 is added prior to or simultaneously with the peroxide. CA 2,278,399 further teaches that the pulp can be pretreated with a chelating agent to remove detrimental metal ions from the pulp, see page 3, lines 8-27, e.g to lower the amount of Fe and Mn. WAN et al teaches substituting a MgCO3 compound for alkali enables the use of a lower pH and teaches that a pH of 8.0 is optimum for peroxide bleaching. Or PARKER et al teaches that a pH of 8.0 provides the best results for peroxide bleaching. It would have been obvious to use a pH of 8.0 during the peroxide bleaching of (column 3, line 57) to provide the best bleaching when alkali is not present, as taught by WAN et al (6,632,328) or PARKER et al (3,193,445). See CA 2,278,399, page 4 for ISO brightness of 70-80, time up to and greater than 180 minutes, 0.3-2% Mg compound, 1-6% peroxide.

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The independent claims are in Markush form even though they have been amended to a single Mg compound, e.g. Mg(OH)2. It would be clearer to amend the claim to "a bleaching mixture comprising hydrogen peroxide and magnesium hydroxide.

When filing an "Official" FAX in Group 1730, please indicate in the Header (upper right) "Official" for papers that are to be entered into the file. The "Official" FAX phone number for this TC 1700 is:

**Non-Final Fax:** 

703-872-9306.

Any inquiry concerning this communication or earlier communications from the primary examiner should be directed to Steve Alvo whose telephone number is (703) 308-2048. The Examiner can normally be reached on Monday - Friday from 6:00 AM - 2:30 PM (EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Steve Griffin, can be reached on 703-308-1164.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the **Group receptionist** whose telephone-number is **703-308-0661**.

MSA

December 5, 2003

STEVE ALVO

PRIMARY EXAMINER

**ART UNIT 1731**